

### **ABSTRACT OF THE DISCLOSURE**

System and method of locating objects positioned in front of a user interactive, computer controlled display area performed by calibrating the system to obtain a coordinate location mapping function and an intensity mapping function between the display area and the captured display area in the capture area of an image capture device. Once calibrated, objects can be located during real-time system operation by converting display area image data using the mapping functions to obtain expected captured display area data, capturing the display area image to obtain actual captured display area data, and comparing the expected and actual data to determine the location of objects in front of the display area in the capture area.

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